FIG. 1

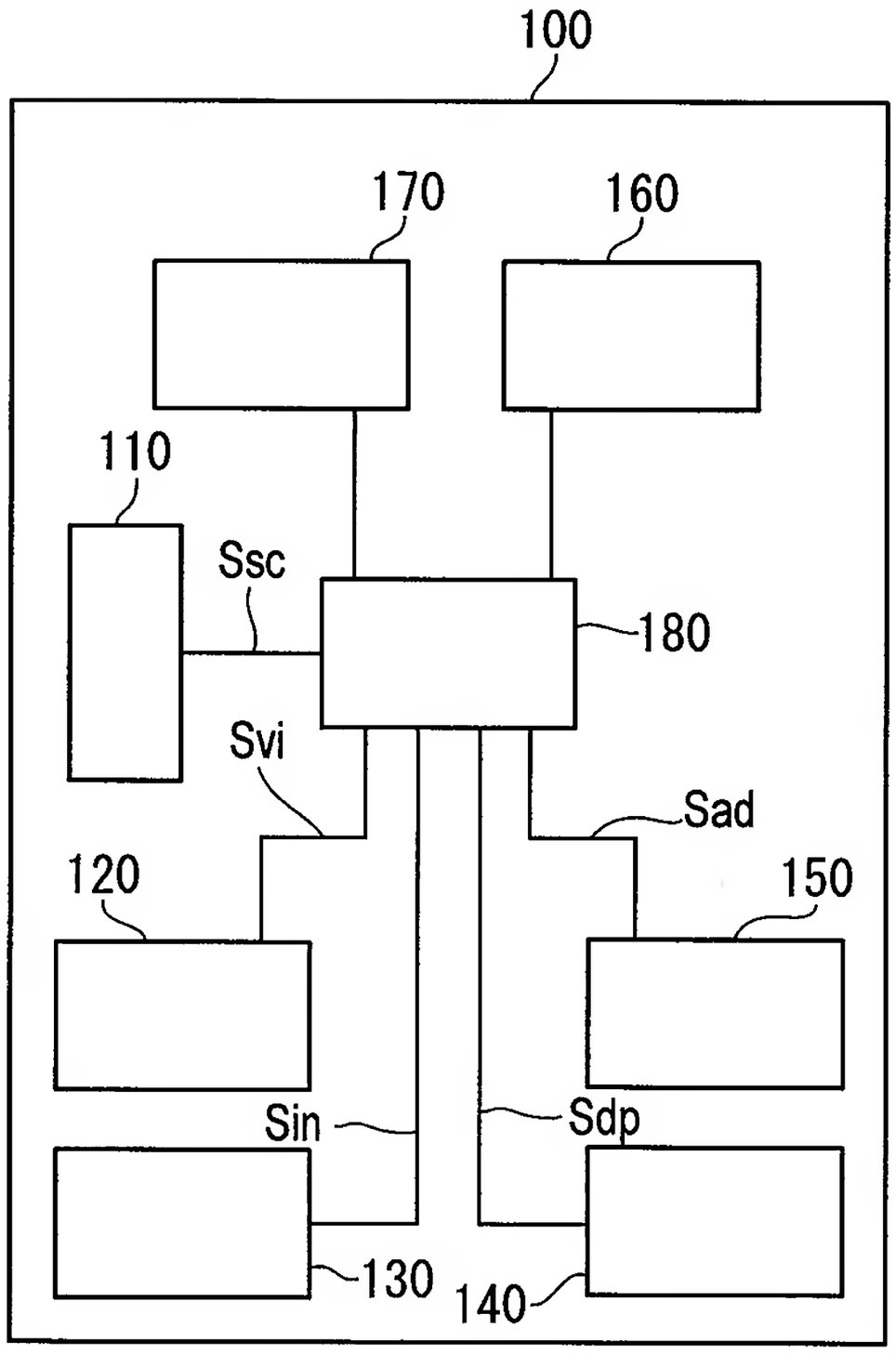


FIG.2

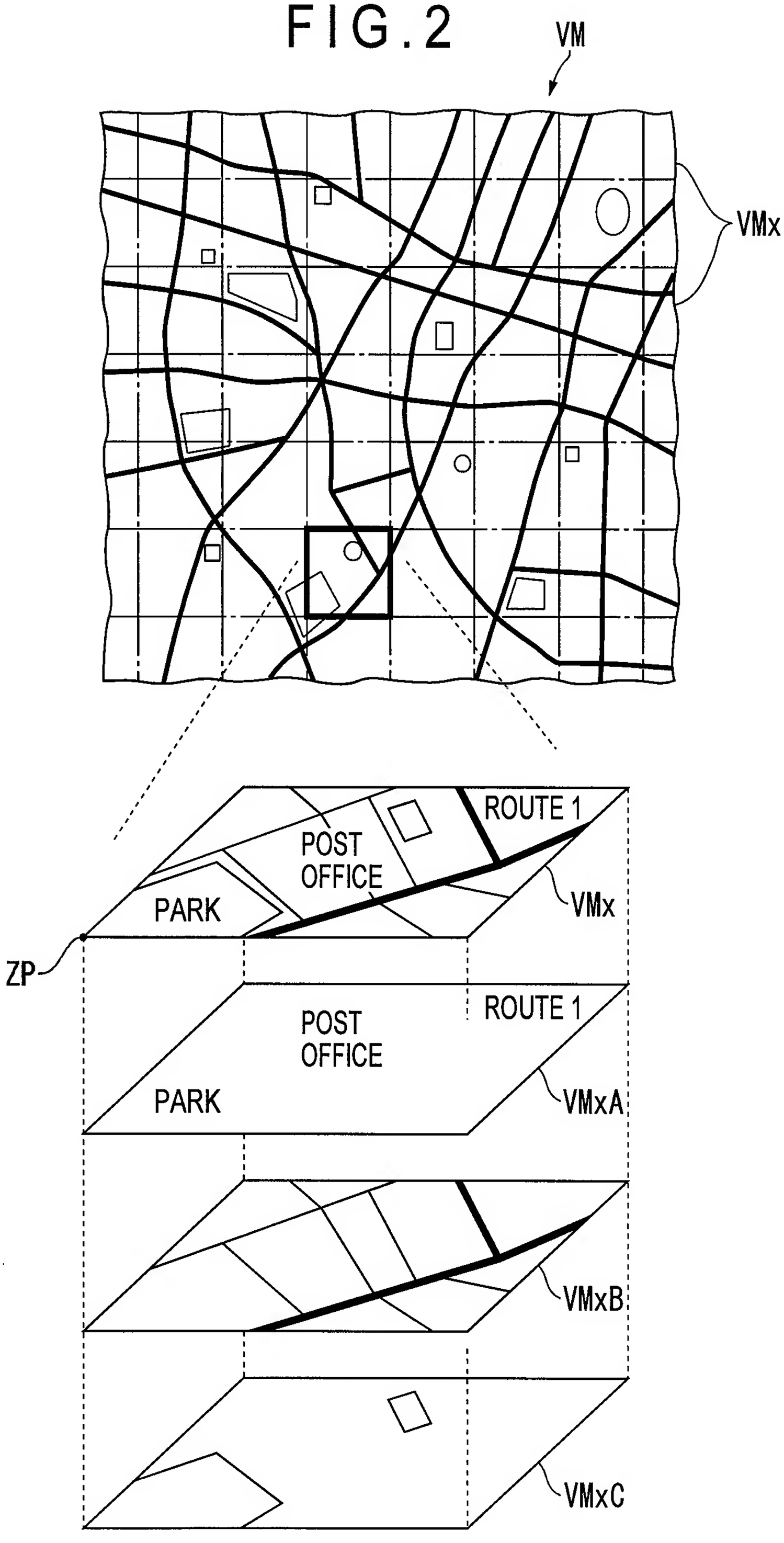

VM
VMx
ROUTE 1
POST
OFFICE
PARK
VMx
ZP
ROUTE 1
POST
OFFICE
PARK
VMxA
VMxB
VMxC

FIG.3

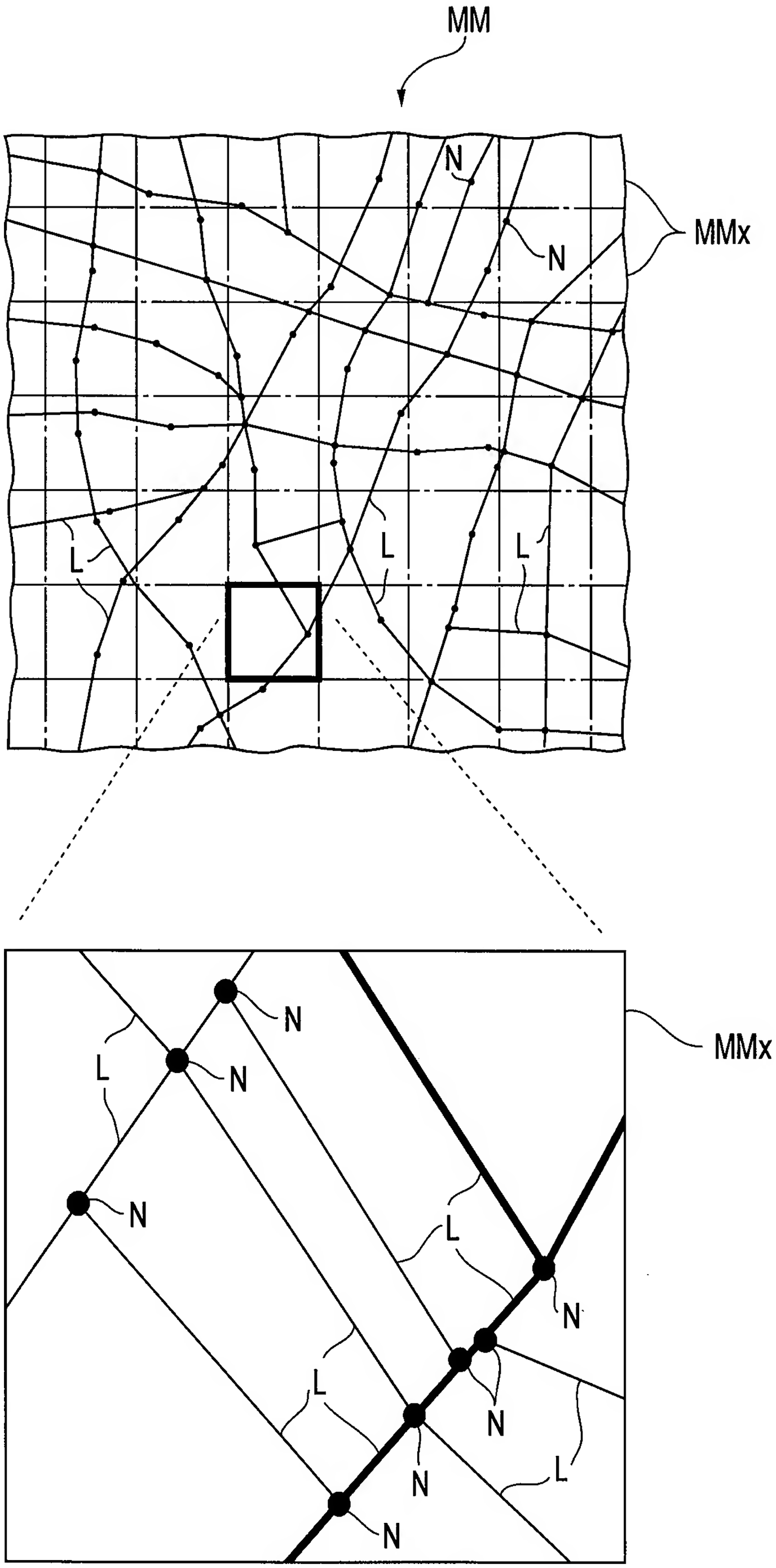


FIG.4

TRAFFIC JAM PREDICTION TABLE

DATE CLASSIFICATION	WORK DAY	SATURDAY	SUNDAY LEGAL HOLIDAY	SPECIAL DAY 1	SPECIAL DAY 2	. . .	DAY BEFORE LONG HOLIDAY	STARTING DAY OF LONG HOLIDAY	MIDDLE DAY OF LONG HOLIDAY	FINAL DAY OF LONG HOLIDAY	DAY BEFORE THE END OF LONG HOLIDAY
DATE CLASSIFICATION ID	ID 1	ID 2	ID 3	ID 4	ID 5	ID 6	ID 7	ID 8	ID 9	ID 10	ID 11
11	TIME SERIES DATA	TIME SERIES DATA	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .	. . .
	12i	12i									

FIG. 5

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 ID 1	2 ID 1	3 ID 1	4 ID 1	5 ID 1	6 ID 2
7 ID 3	8 ID 1	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
28 ID 3	29 ID 1	30 ID 1	31 ID 1			

20

FIG.6

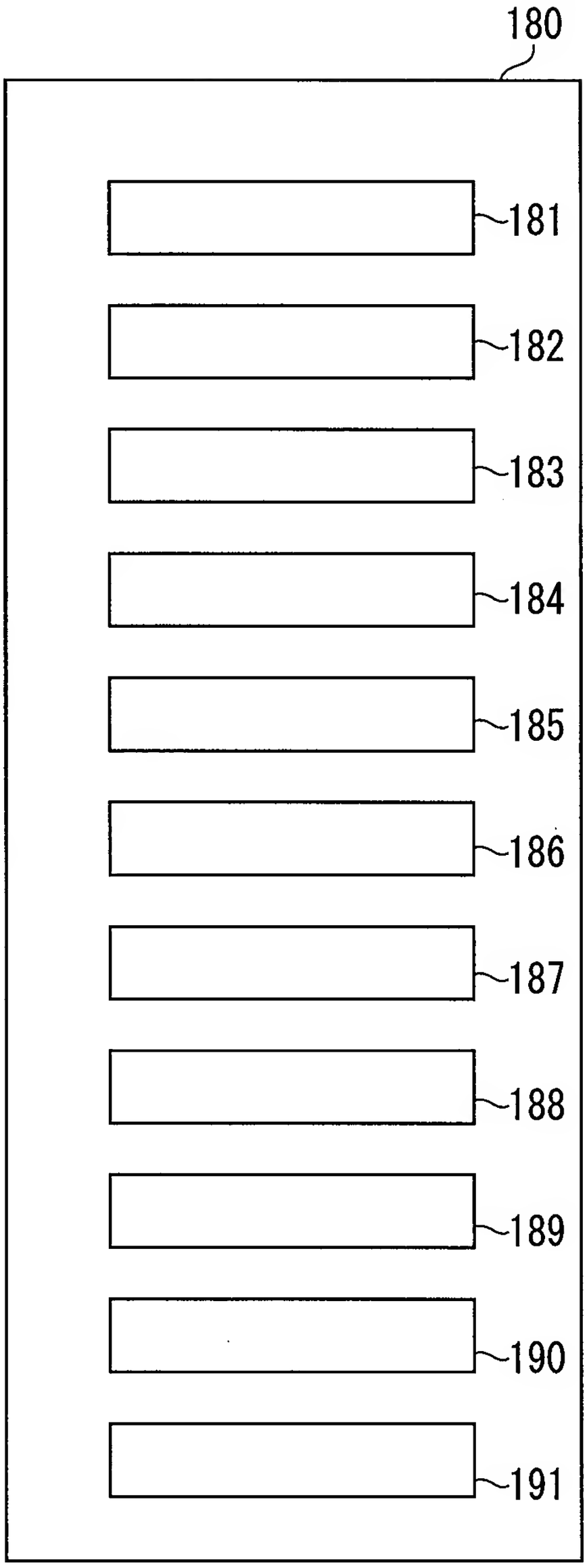


FIG. 7

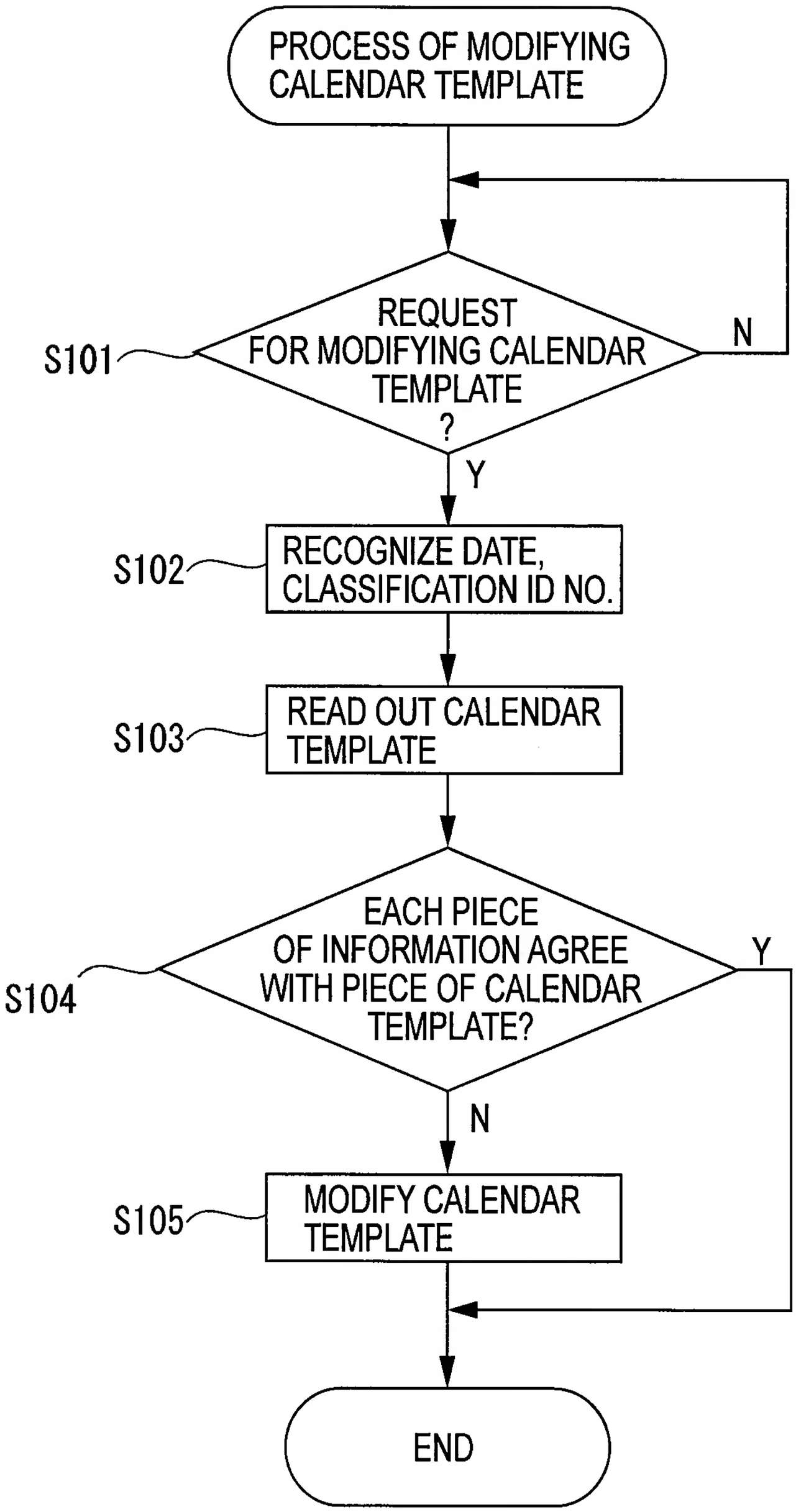

PROCESS OF MODIFYING CALENDAR TEMPLATE
S101
REQUEST FOR MODIFYING CALENDAR TEMPLATE ?
N
Y
S102
RECOGNIZE DATE, CLASSIFICATION ID NO.
S103
READ OUT CALENDAR TEMPLATE
S104
EACH PIECE OF INFORMATION AGREE WITH PIECE OF CALENDAR TEMPLATE?
Y
N
S105
MODIFY CALENDAR TEMPLATE
END

FIG. 8

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 ID 1	2 ID 1	3 ID 1	4 ID 1	5 ID 4	6 ID 2
7 ID 3	8 ID 1	. . . .	. . . .	. . . .	. . . .	. . . .
. . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
. . .	. . . .	. . . .	. . . .	. . . .	. . . .	. . . .
28 ID 3	29 ID 1	30 ID 1	31 ID 1			

20

FIG. 9

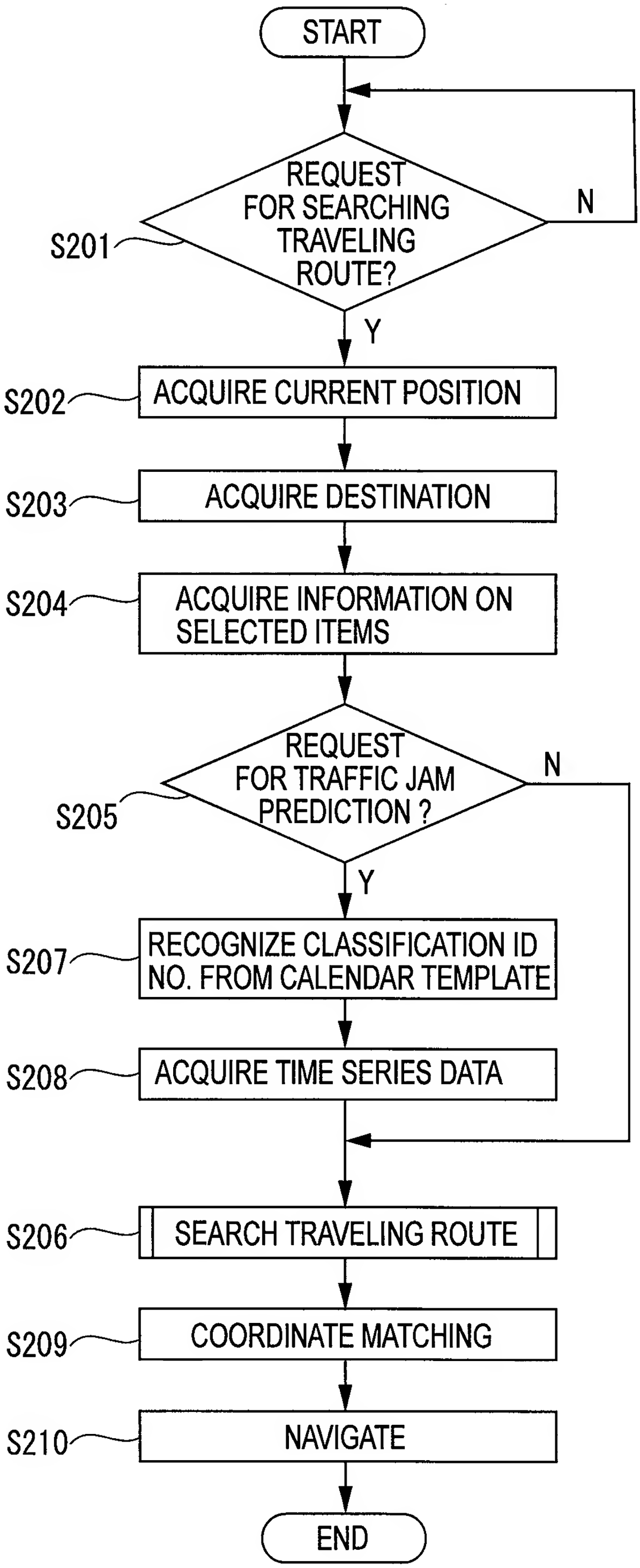

START
REQUEST FOR SEARCHING TRAVELING ROUTE?
S201
N
Y
ACQUIRE CURRENT POSITION
S202
ACQUIRE DESTINATION
S203
ACQUIRE INFORMATION ON SELECTED ITEMS
S204
REQUEST FOR TRAFFIC JAM PREDICTION ?
S205
N
Y
RECOGNIZE CLASSIFICATION ID NO. FROM CALENDAR TEMPLATE
S207
ACQUIRE TIME SERIES DATA
S208
SEARCH TRAVELING ROUTE
S206
COORDINATE MATCHING
S209
NAVIGATE
S210
END

FIG. 10

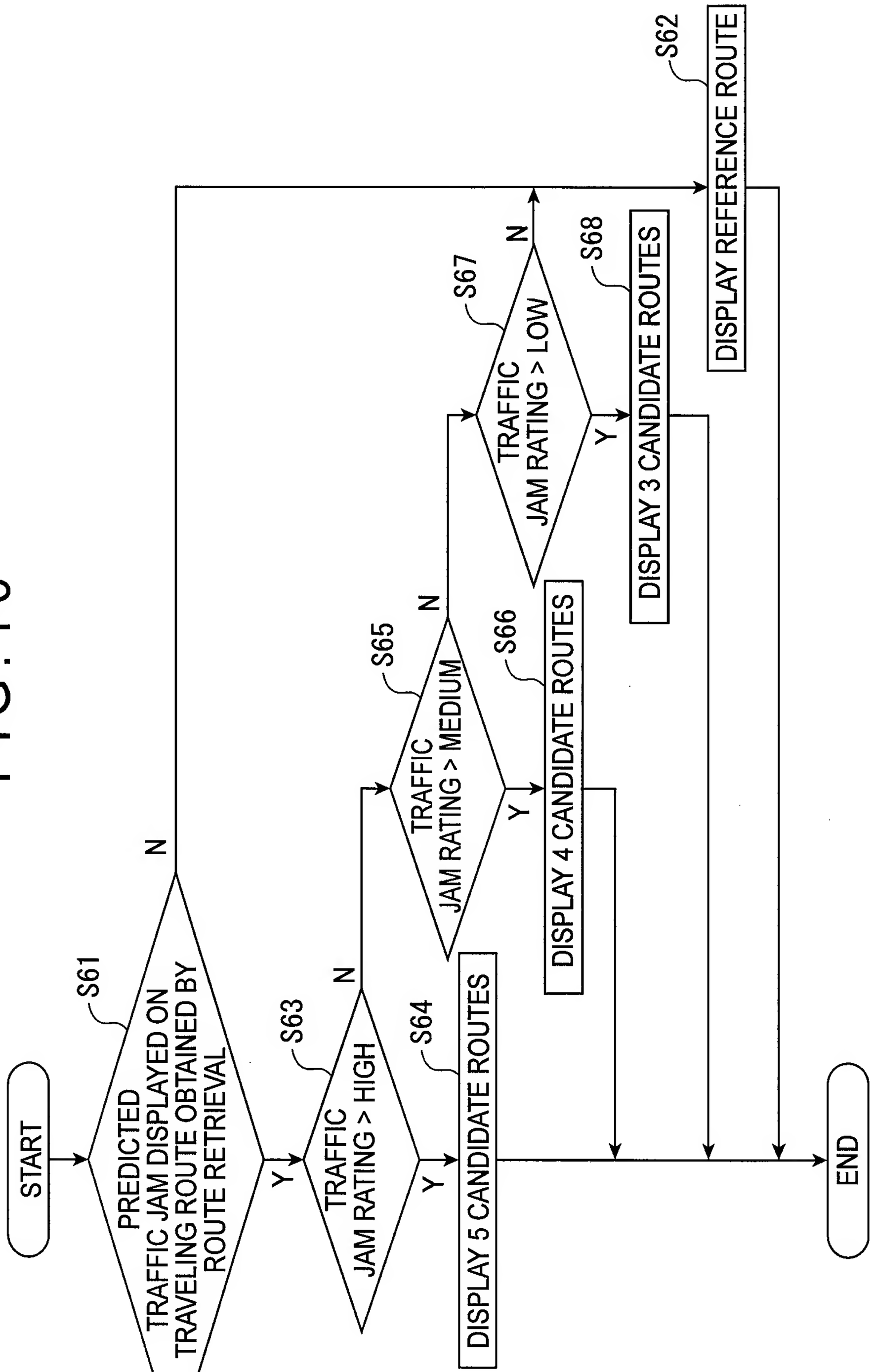

START
S61
PREDICTED TRAFFIC JAM DISPLAYED ON TRAVELING ROUTE OBTAINED BY ROUTE RETRIEVAL
N
Y
S63
TRAFFIC JAM RATING > HIGH
N
Y
S64
DISPLAY 5 CANDIDATE ROUTES
S65
TRAFFIC JAM RATING > MEDIUM
N
Y
S66
DISPLAY 4 CANDIDATE ROUTES
S67
TRAFFIC JAM RATING > LOW
N
Y
S68
DISPLAY 3 CANDIDATE ROUTES
S62
DISPLAY REFERENCE ROUTE
END

FIG. 11

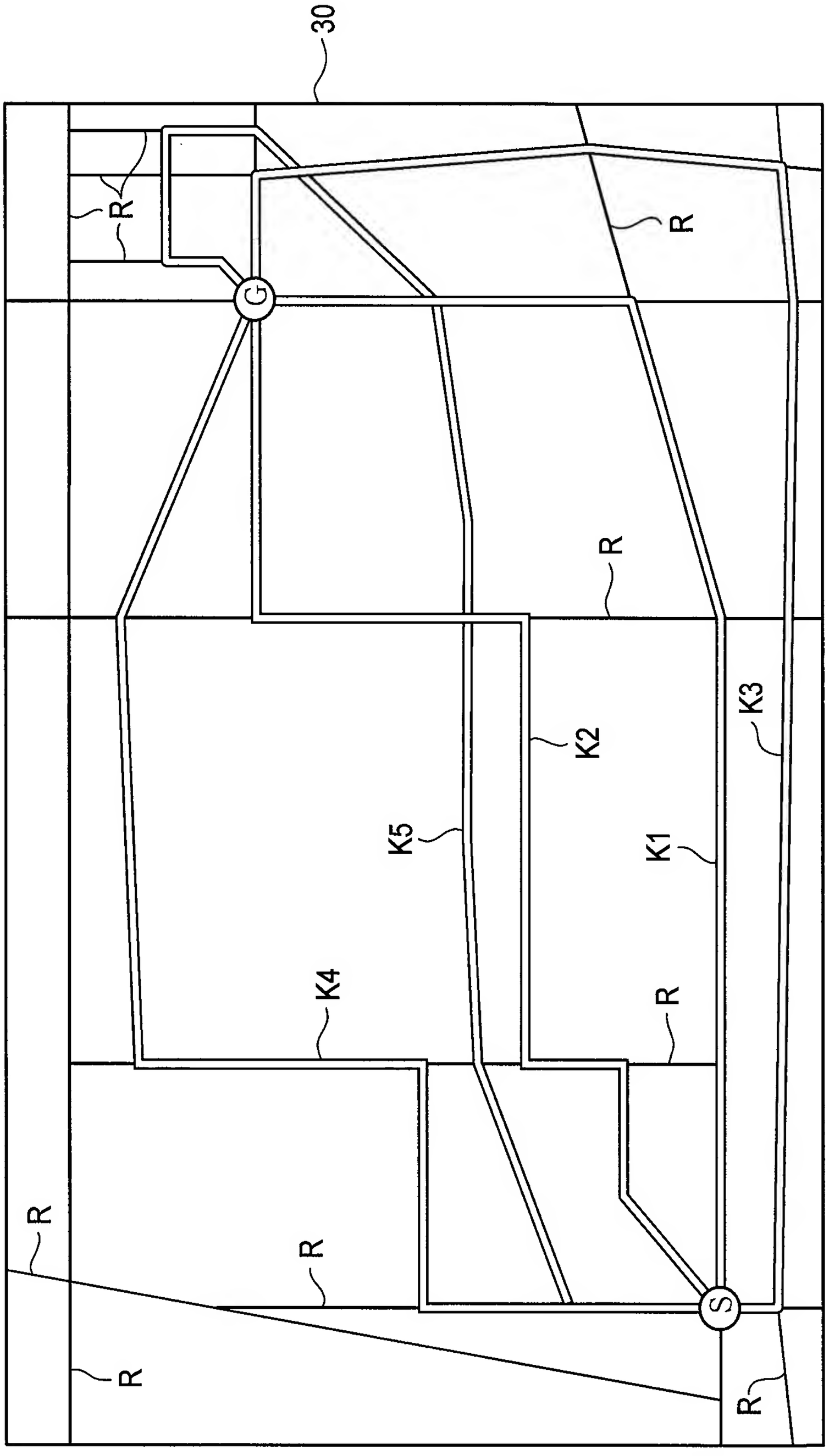


FIG. 12C

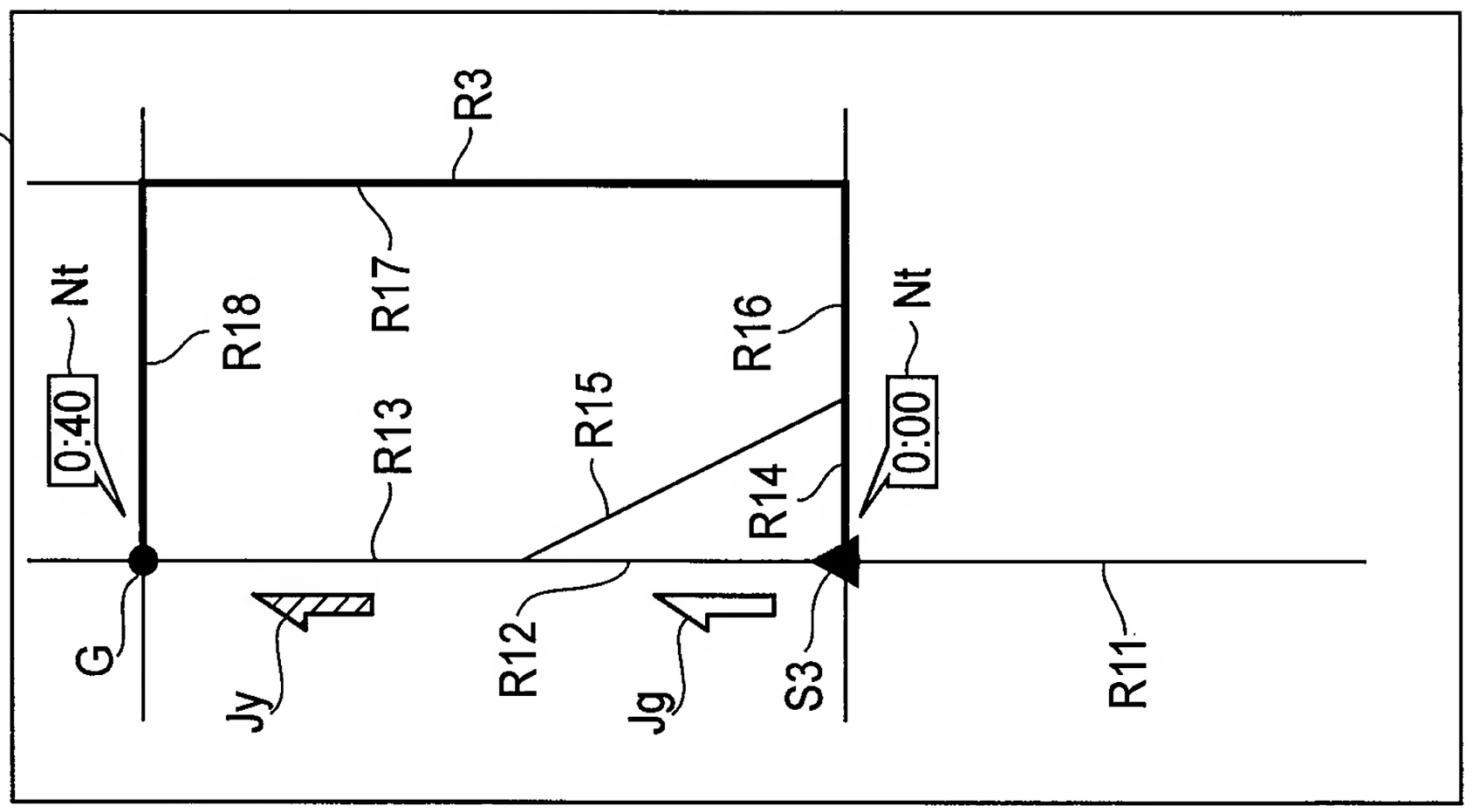


FIG. 12B

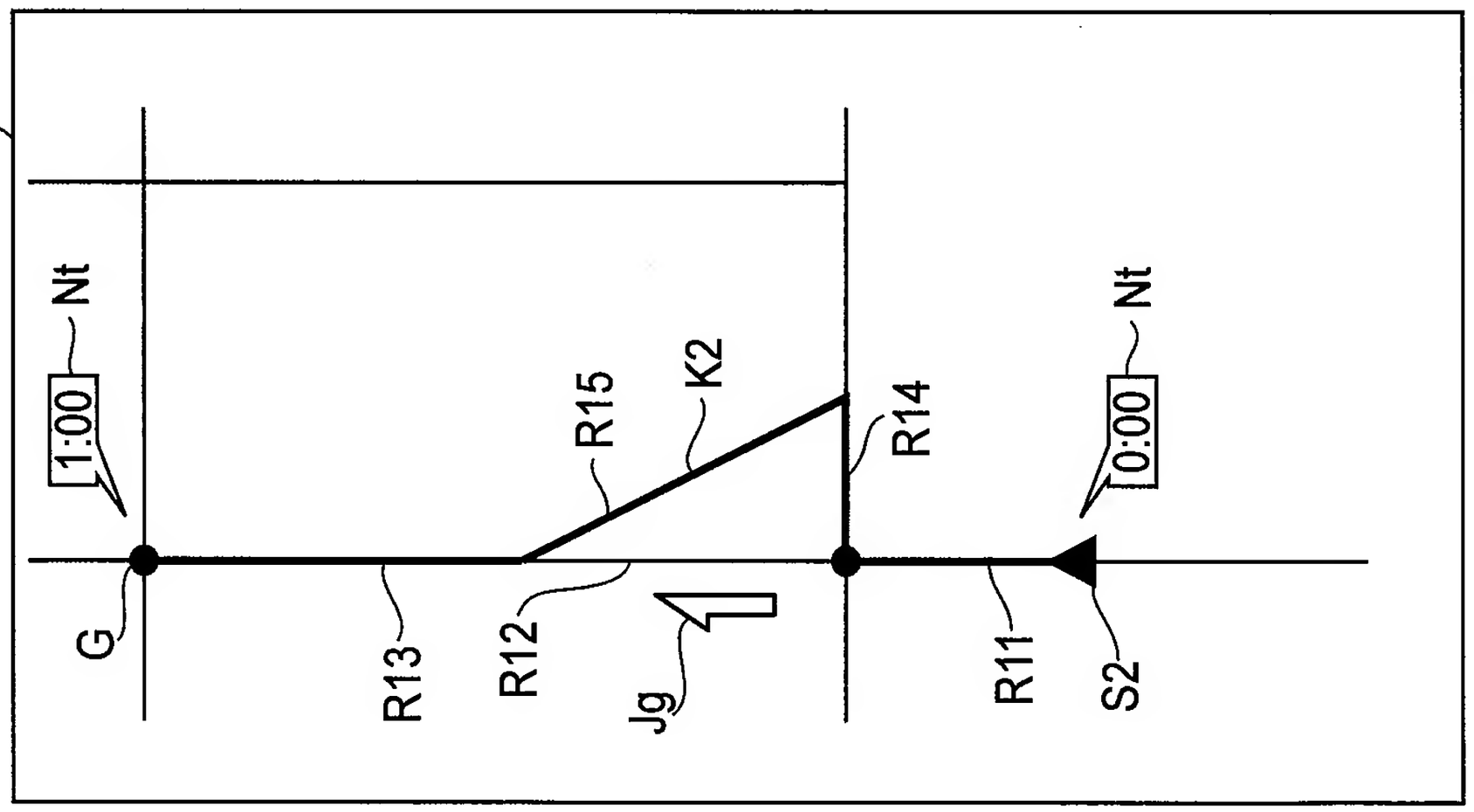


FIG. 12A

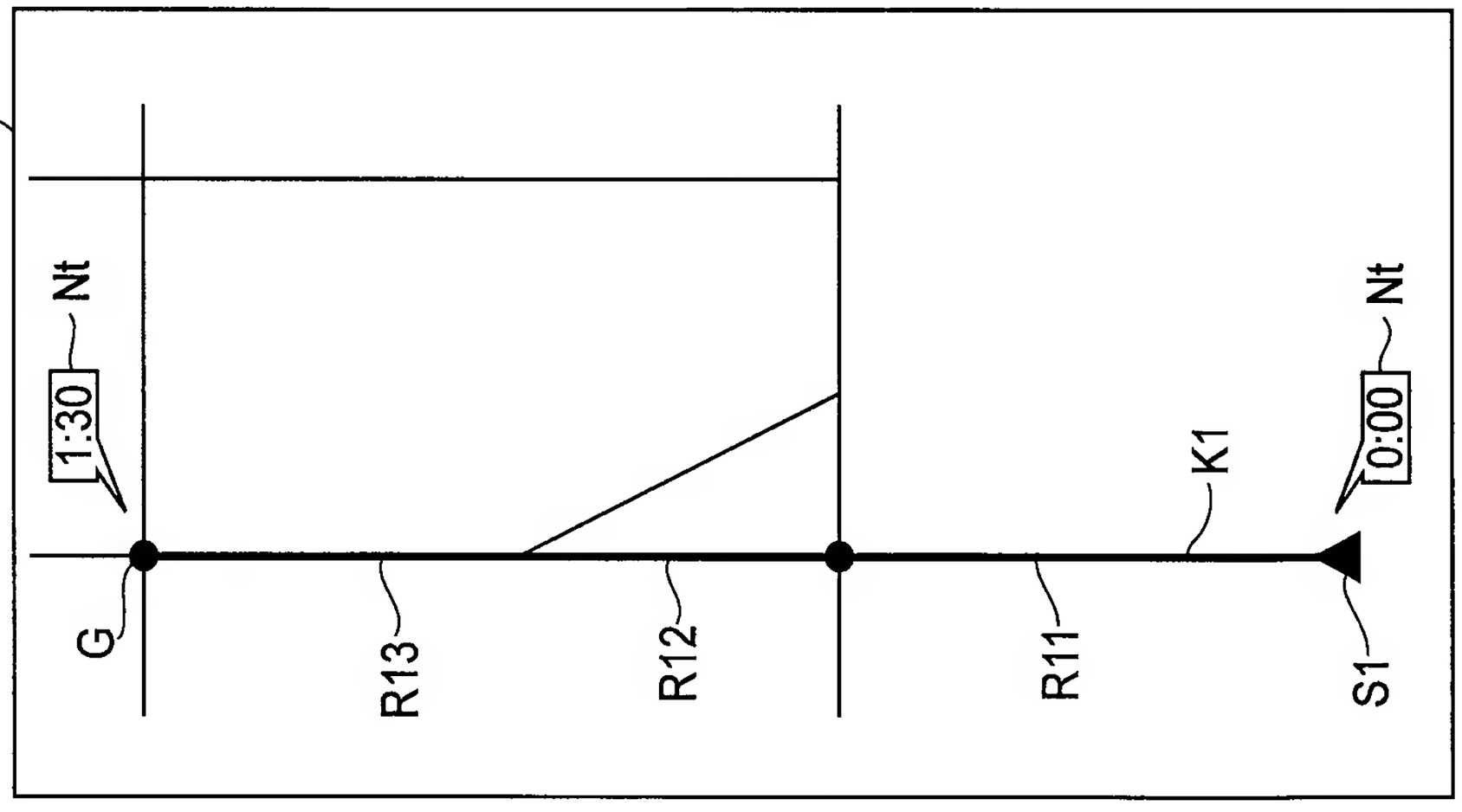


FIG. 13

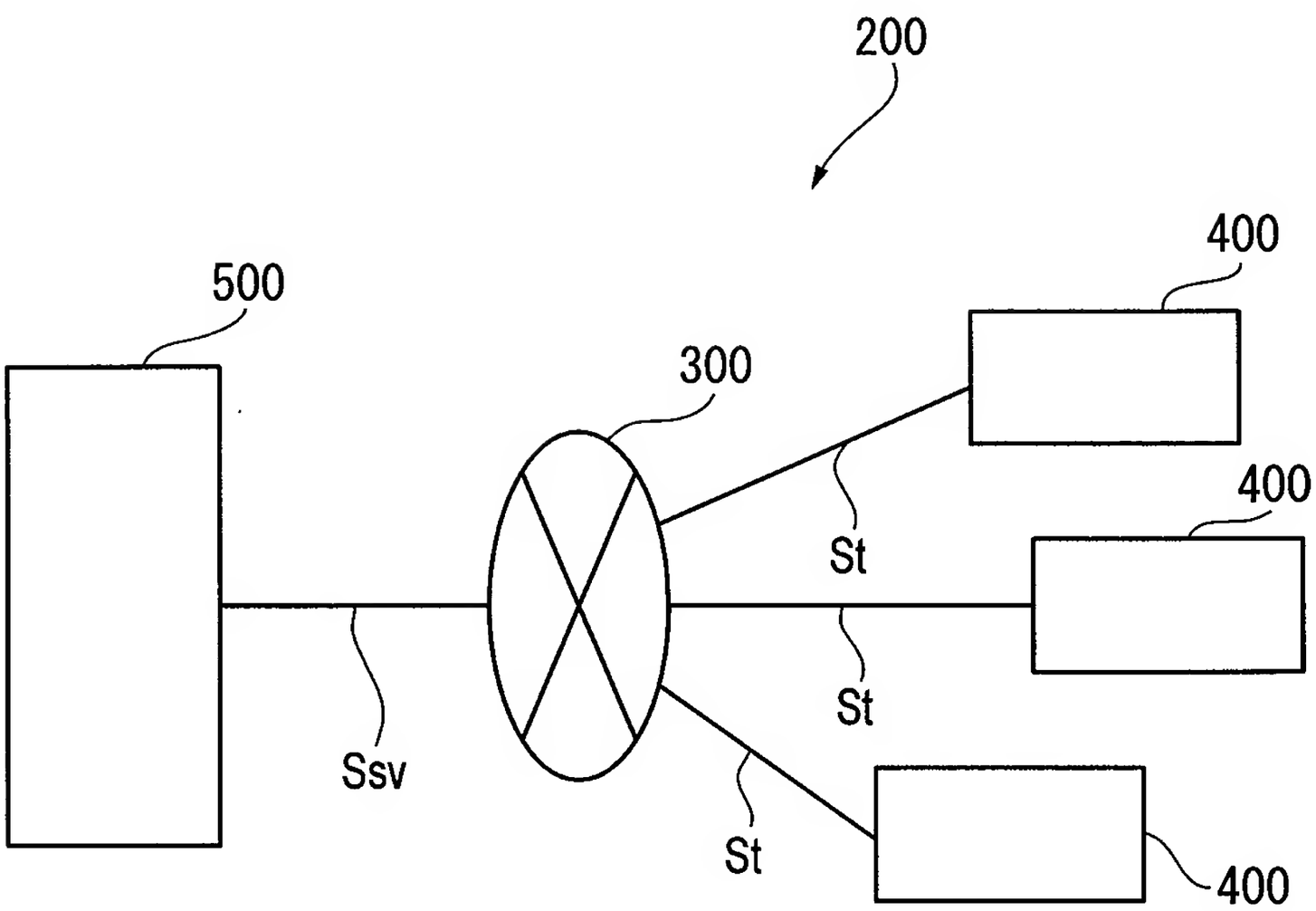


FIG. 14

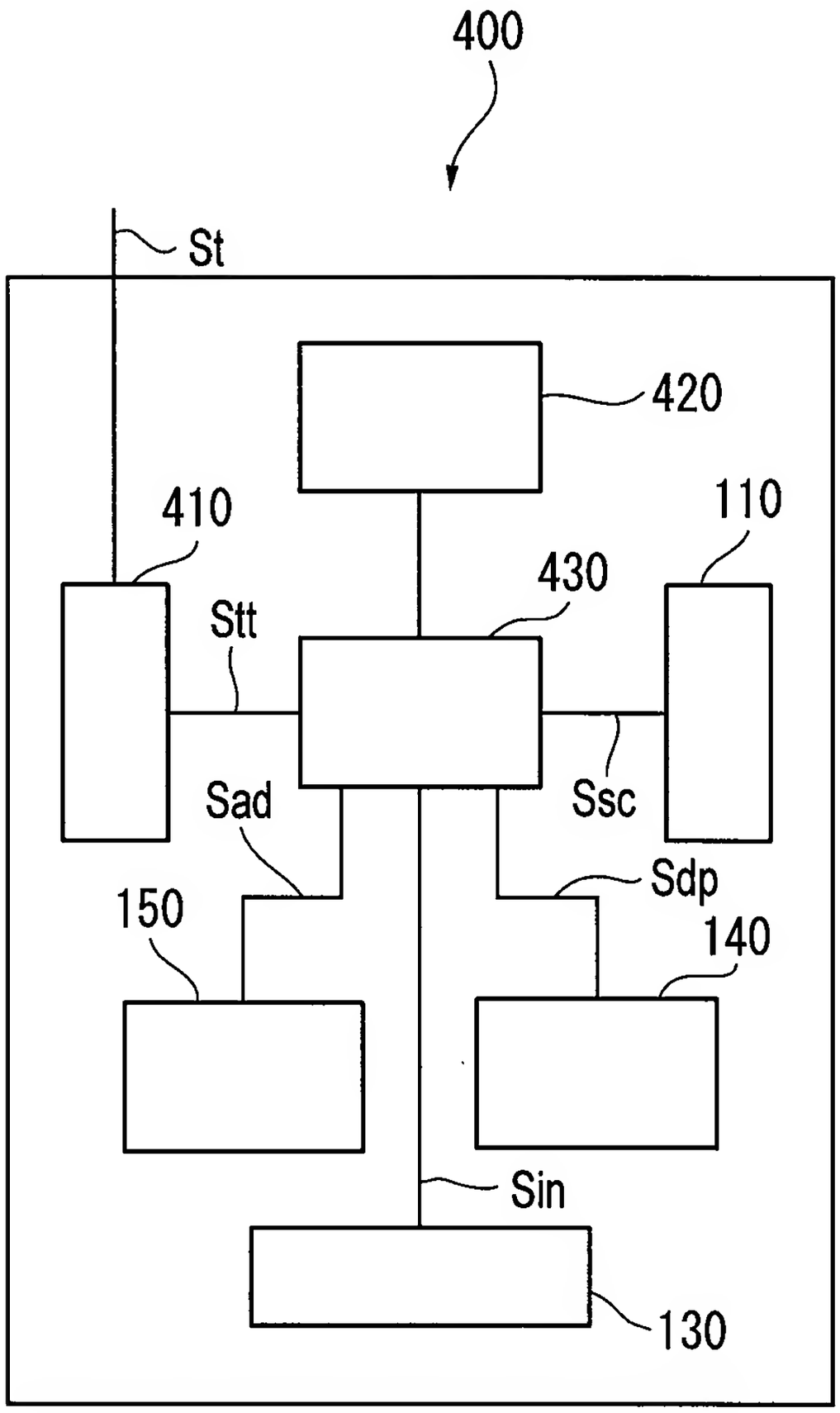


FIG. 15

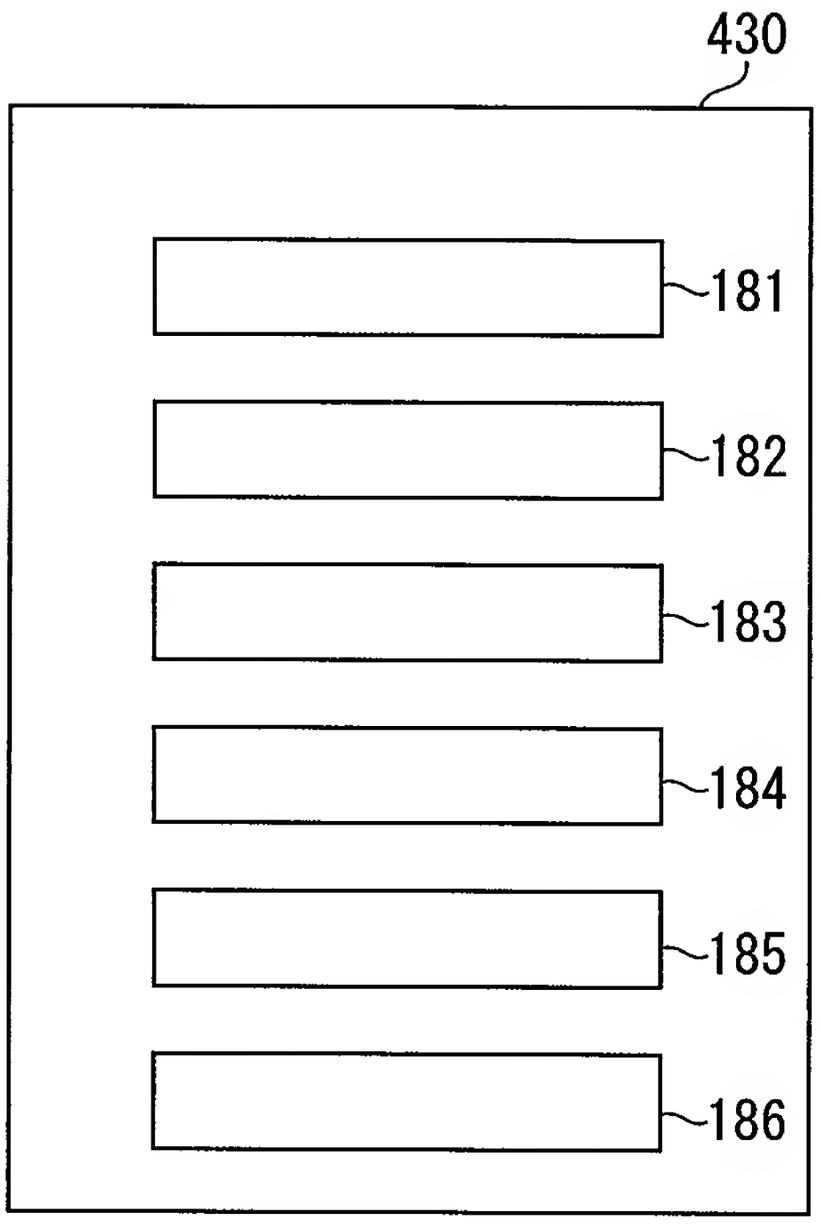


FIG. 16

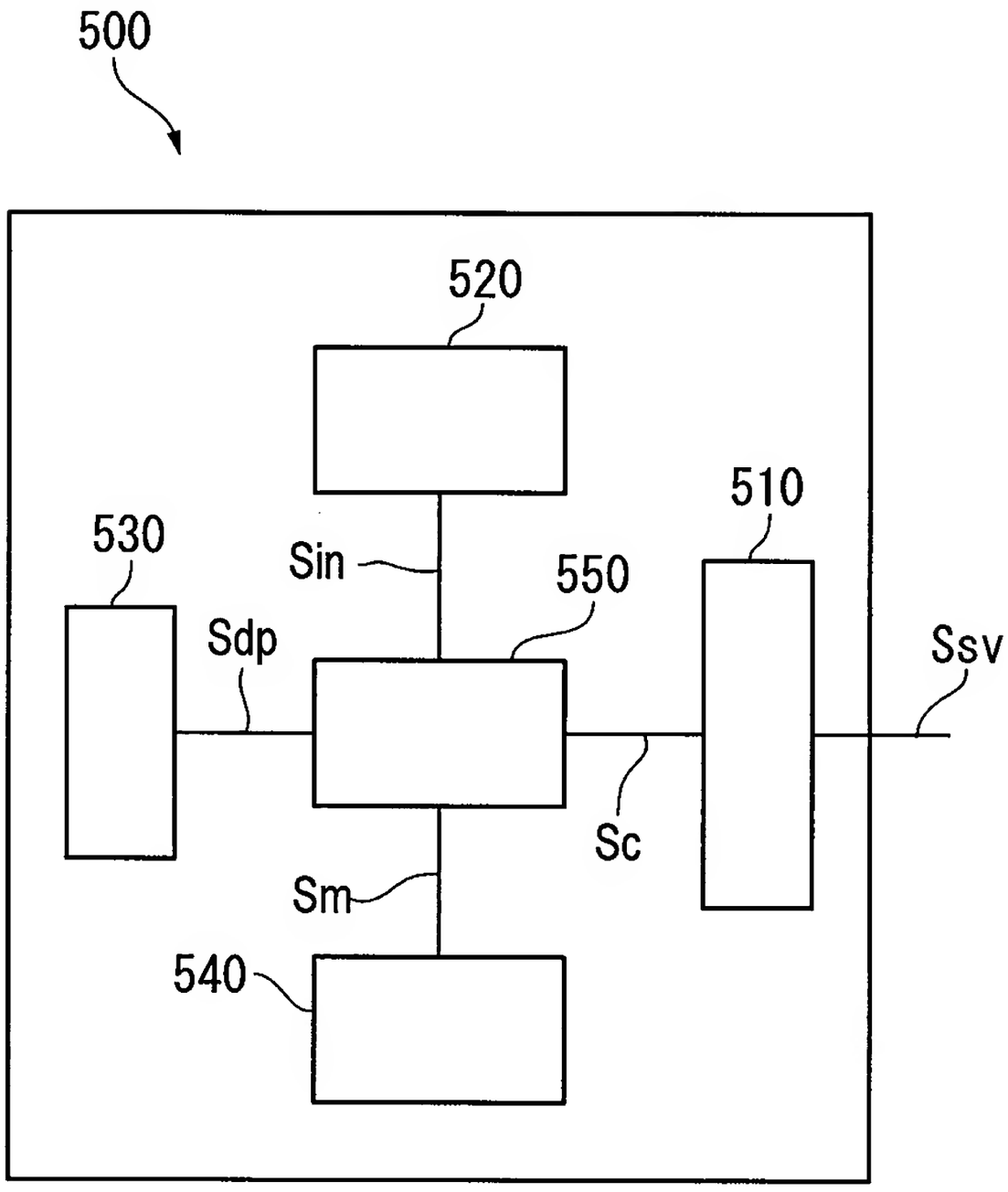


FIG.17

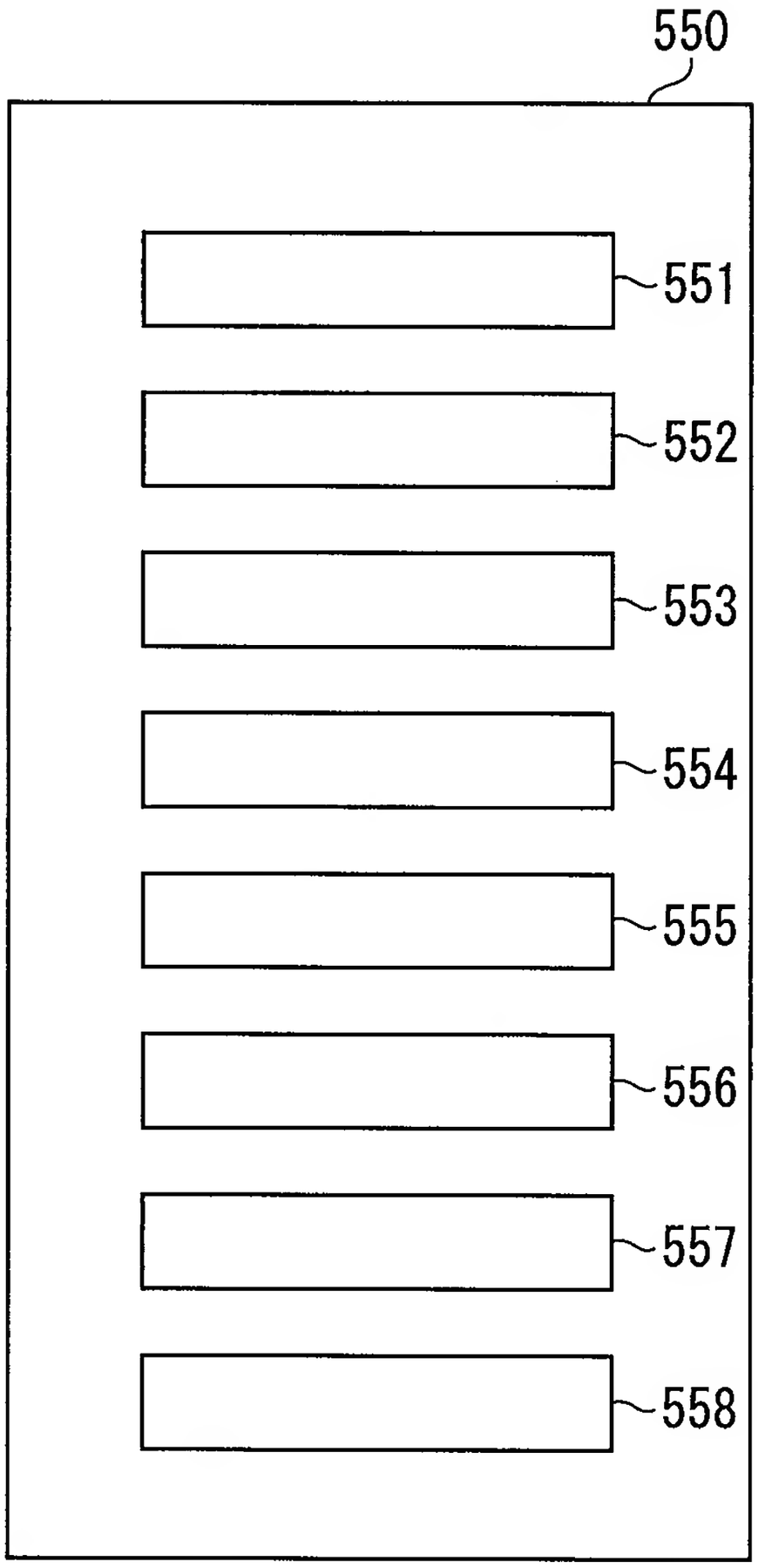


FIG. 18

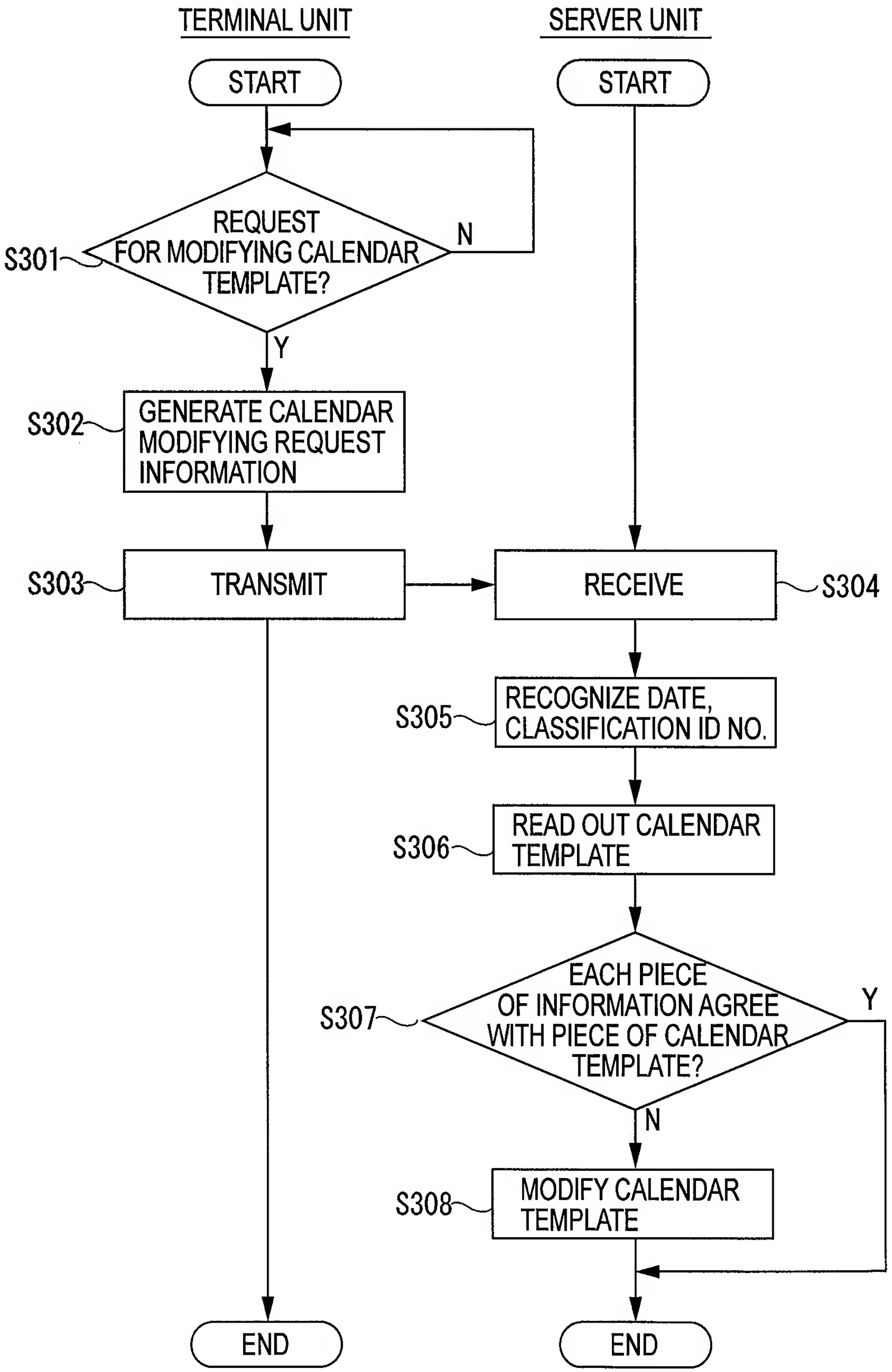

TERMINAL UNIT
SERVER UNIT
START
START
REQUEST FOR MODIFYING CALENDAR TEMPLATE?
S301
N
Y
GENERATE CALENDAR MODIFYING REQUEST INFORMATION
S302
TRANSMIT
S303
RECEIVE
S304
RECOGNIZE DATE, CLASSIFICATION ID NO.
S305
READ OUT CALENDAR TEMPLATE
S306
EACH PIECE OF INFORMATION AGREE WITH PIECE OF CALENDAR TEMPLATE?
S307
Y
N
MODIFY CALENDAR TEMPLATE
S308
END
END

FIG. 19

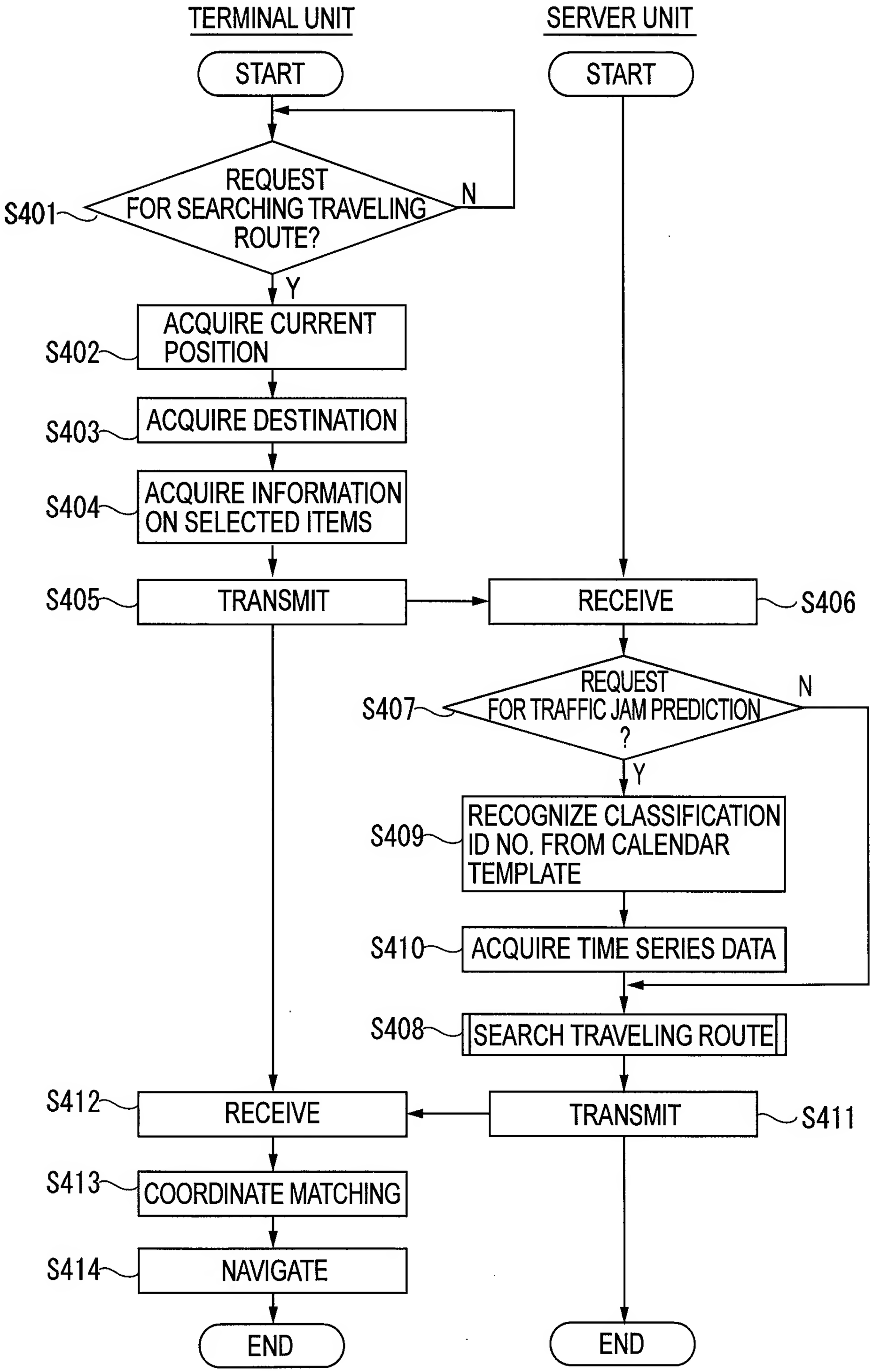
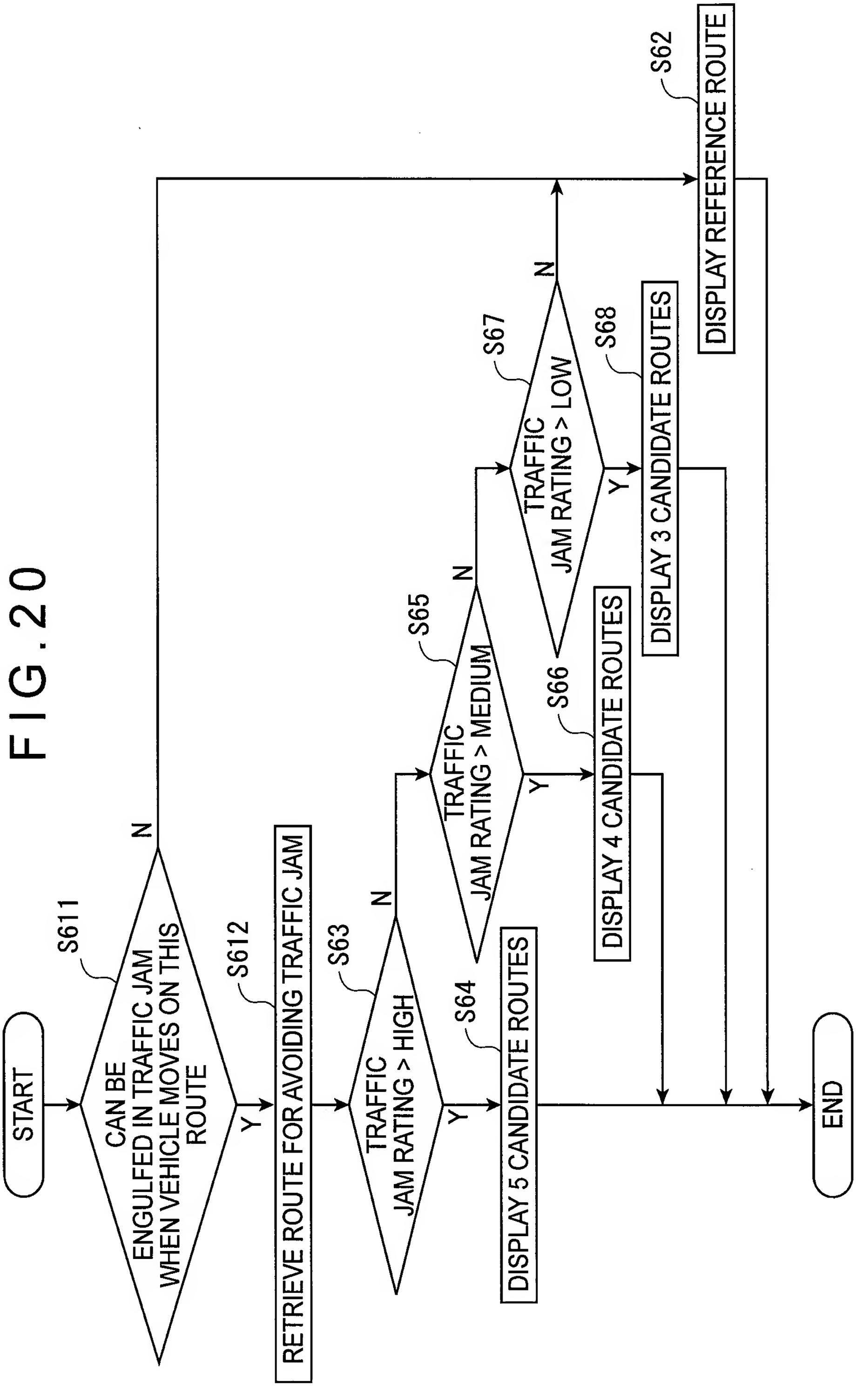

TERMINAL UNIT
SERVER UNIT
START
START
REQUEST FOR SEARCHING TRAVELING ROUTE?
S401
N
Y
ACQUIRE CURRENT POSITION
S402
ACQUIRE DESTINATION
S403
ACQUIRE INFORMATION ON SELECTED ITEMS
S404
TRANSMIT
S405
RECEIVE
S406
REQUEST FOR TRAFFIC JAM PREDICTION ?
S407
N
Y
RECOGNIZE CLASSIFICATION ID NO. FROM CALENDAR TEMPLATE
S409
ACQUIRE TIME SERIES DATA
S410
SEARCH TRAVELING ROUTE
S408
RECEIVE
S412
TRANSMIT
S411
COORDINATE MATCHING
S413
NAVIGATE
S414
END
END

FIG.20


START
S611
CAN BE ENGULFED IN TRAFFIC JAM WHEN VEHICLE MOVES ON THIS ROUTE
N
Y
S612
RETRIEVE ROUTE FOR AVOIDING TRAFFIC JAM
S63
TRAFFIC JAM RATING > HIGH
N
Y
S64
DISPLAY 5 CANDIDATE ROUTES
S65
TRAFFIC JAM RATING > MEDIUM
N
Y
S66
DISPLAY 4 CANDIDATE ROUTES
S67
TRAFFIC JAM RATING > LOW
N
Y
S68
DISPLAY 3 CANDIDATE ROUTES
S62
DISPLAY REFERENCE ROUTE
END